Rabelais Biomedical Cluster



31 Laboratories

Technological resources Laboratory

RESEARCH PROGRAMS













BIOCAMPUS MONTPELLIER

51 technology platforms grouped in 12 facilities

- Technology services
- Expertise
- TRAINING:
 Technology Workshops



http://www.polebiosante-rabelais.fr/

INTERDISCIPLINARY AXIS

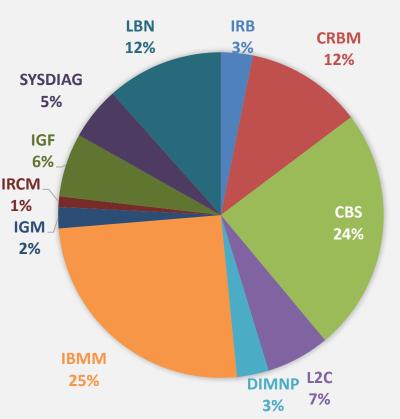


4 Atip-Avenir grants, 4 ERC grants





4 French Government "Investissements d'avenir" projects





FBI (France Bio-Imaging)
FRISBI (French Integrated Structural
Biology Infrastructure)
Bip:Bip (Structural Bioinformatics)
IBC (Institute of Computational Biology)







Technology and bioinformatics platforms

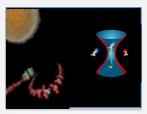
- MARS Super-resolution and optical fluctuation Microscopy
- PIBBS/Biocampus
- SynBio3 Synthesis of Biomolecules
- PPC Proteomics Montpellier/Biocampus
- IMGT®, the international ImMunoGeneTics information system



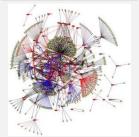




Rabelais/Intersciplinary: areas of expertise



> Structural biology (NMR, crystallography, EM) and single molecule biophysics (SRM, FFS, AFM, nanomanipulation).



> Synthetic biology





> Nanotechnologies applied to medicine.



➤ *Multiscale modelling* of biological processes.



➤ New diagnostic approaches in human healthcare based on bioinformatics methods, integrative and systems biology.

> Bioinformatics and Systems Biology tools and algorithms.

Systems biology, synthetic biology, bioinformatics teams

- > Biological Physics and Systems Biology (Ovidiu Radulescu, Andrea Parmeggiani).
- > Cancer bioinformatics and systems biology (Jacques Colinge)
- > SYSDIAG UMR3145 (Franck Molina).
- > Synthetic Biology (Jerome Bonnet)
- Multiscale Biomolecular modelling (Alessandro Barducci)
- Structural Bioinformatics and Molecular Modelling (Andrey Kajava)
- Structure and Screening of Therapeutic and Environmental Targets (William Bourguet, Gilles Labesse)
- ➤ IMGT® le système d'information international en ImMunoGénéTique® (Sofia Kossida)
- Bioinformatique et biomarqueurs (Thérèse Commes)
- > Computational Biology Institute.